Our Vision

"Simply Better Connections" has always been at the heart of the ATEN brand. It means providing innovative solutions for you to make better connections, efficiently and seamlessly, to the information and people that you value. As a result, ATEN connects you to the world, anytime and anywhere, by providing technologies that enable you to share and to care. ATEN makes professional and personal life easier, simpler and better connected.

About ATEN

ATEN has specialized in connectivity and management solutions in information technology, professional audio/video and green energy business since its establishment in 1979, and has been a worldwide leader in the KVM switch market.

ATEN offers a broad range of solutions to meet the needs of consumers, small office/home office (SOHO) users, and small and medium sized business (SMB) customers. ATEN's state-of-the-art KVM switches include Cable KVM, Desktop KVM, Rack KVM and KVM Extenders. ATEN also offers LCD KVM switches to meet the needs of server rooms in tandem with the ALTUSEN™ line of high-end server management solutions for the enterprise-level KVM switch market. Furthermore, ATEN's Over the NET™ solutions allow you to effectively manage IT infrastructure from anywhere in the world. ATEN also offers the VanCryst™ range of video integrated solutions for a wide variety of corporate, commercial, and home theater applications. Our high-quality audio/video switches, splitters, extenders, and converters are available with various audio, video and control interfaces.

At ATEN, we are committed to protecting the environment. To this end, ATEN NRGence™ line is the latest evolution of energy intelligence. A green energy solution for data centers that provides instant real-time power management control and energy-saving efficiency, by allowing you to easily upgrade your current IT resources quickly and cost-effectively.

ATEN delivers and we make customer care a priority. We are committed to providing the best customer support available in the industry.

NRGence™ Rack PDU Products

Current with increasing energy challenges, including rising demand, growing consumption, and ensuring sufficient energy supplies, energy-saving issues have become an important global concern. In fact, power used in the server room represents a large proportion of the total consumption of electricity in any office building. Efficiently reducing sever room power consumption and lowering data center energy overheads is therefore not only a great benefit in terms of environmental protection but also it is essential to saving business operation costs. ATEN offers various series of PDU and energy management solution – allowing you to easily upgrade your server room to a green data center quickly and cost-effectively.

PDU Comparison

Series	Series 1		Series 6			Series 8			Series 98
Models	PE1216	PE1324	PE6108/PE6208	PE6216	PE6324	PE8108/PE8208	PE8216	PE8324	PE98224/PE98324
Outlet	16	24	8	16	24	8	16	24	24
Rack Space	0U		1U	0U		1U	0U		0U
Daisy-chain							V		V
Remote Power Control				V			V		V
Metering Capability	V *		Bank & PDU Level			Outlet, Bank & PDU Level			Outlet, Bank & PDU Level
Local console access							v		v
Thresholds & Alarms	v		v			v	v		v
Auto Ping							v		v
Environment Monitoring	v *		v			v			v
eco Sensors Support	v *		v			v			v
API Support						v			v
CC2000 support							v		v

* Used in conjunction with Energy Box

PE1216/PE1324

Energy PDU

Energy PDU PE1216/PE1324

The Energy PDU contains 16/24 AC outlets and is available in various IEC or NEMA socket configurations. It features a space-saving 0U design that allows it to be mounted vertically on the outside of the rack, resulting in a more efficient use of server room space.
- Space saving 0U rack mount design
- IEC or NEMA outlet models

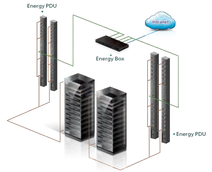
Energy Box EC1000

NRGence™ Energy Box is an intelligent 1U (0U vertical hook also available) power monitor unit which can monitor the current from 4 Energy PDUs and 4 temperature, humidity, or differential pressure sensors. It is a standalone Over IP monitor box that can be controlled by Web UI or eco Sensors software. Conveniently deploying Energy Boxes in your rack, connected to Energy PDUs, allows all current information from the PDUs to be collated and displayed on the Energy Box for easy viewing and monitoring.

- 4 Energy Sensor ports for Energy PDU current monitoring (0A to 32A per port)
- 4 Environment Sensor ports for temperature, humidity and differential pressure monitoring
- Space saving 0U/1U rack mount design
- Remote real-time current management and monitoring
  - Current threshold level setting provision
  - Name assignment to individual PDU
- Wide Management Option Range
  - Remote management via IP network with Web Brower, eco Sensors software or 3rd party SNMP manager
- Exceed threshold alert through
  - Local: audio alarm and LED light blinking
  - Remote: SMTP/SNMP trap/Syslog

Function	Energy Box
Inlet	Power Adapter DC 5V (1.8m)
Current Monitor	4 x Energy Sensor Connection port
Environment Monitor	4 x Environment Sensor Connection port
LAN	1 x RJ-45 Female with LEDs
Monitoring Range	100~240V; 50/60Hz; 0A to 32A (per port) LED Display Resolution 0.1A Precision: ±0.1A@0 ~ 1A, ±1%@ >1A

Setup



Model	Input	Nominal Input Power	Outlet	Nominal Output Power
PE1216A	NEMA 5-20P	100~120V, 50/60Hz, 20A	16 x NEMA 5-15R	100~120V, 50/60Hz ,20A
PE1216B	NEMA L6-20	200~240V, 50/60Hz, 20A	16 x IEC 320 C13	200~240V, 50/60Hz, 20A
PE1216G	IEC 320 C20	200~240V, 50/60Hz,16A	16 x IEC 320 C13	200~240V, 50/60Hz, 16A
PE1324B	NEMA L6-30P	200~240V, 50/60Hz, 30A	24 x IEC 320 C13	200~240V, 50/60Hz Per Bank 15A Total 30A
PE1324G	IEC 60309 32A	200~240V, 50/60Hz, 32A	24 x IEC 320 C13	200~240V, 50/60Hz Per Bank 16A Total 32A

The specification and pictures are subject to change without notice.

PE6108/PE6208
PE6216/PE6324

eco PDU

Power Distribution
- Space saving rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7 segment front panel LED shows Current / IP Address
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets – the user interface is still accessible even when an overload condition trips the devices' circuit breakers

Remote Access
- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Network Protocols: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V3

Operation
- Remote power outlet control (On, Off, Power Cycle) by individual outlets
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-on sequencing - users can set the power on sequence and delay time for each outlet to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- RTC support to keep the timer running during times of no power
- Supports up to 8 user and 1 administrator accounts

Management
- Power status measurement at PDU level
- LED indicators for current and IP address at the PDU device level
- Real-time current, voltage, and kWH displayed in a browsed-based UI for monitoring at the PDU level
- Environment monitoring – supports external temperature / temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power dissipation, energy consumption, temperature, and humidity threshold level setting
- Naming support for outlets
- User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Supports Management Information Base (MIB) files for SNMP
- Upgradeable firmware
- Multilanguage support

Security
- Two-level password security
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

Model	Nominal Input Power	Rack Space	# of Bank x Nominal Output Power	# of Outlet Socket x Type	Switching Capability	Metering Capability	Regulatory Approval
PE6108A	15A, 100 ~ 120V UL de-rated 12A NEMA 5-15 Plug	1U	1 x 15A 100 ~ 120V	8 x NEMA5-15R	Per Outlet	PDU Level	UL, PSE
PE6108B	15A, 200 ~ 240V UL de-rated 12A NEMA 6-15 Plug	1U	1 x 15A 200 ~ 240V	8 x IEC 320 C13	Per Outlet	PDU Level	UL, PSE
PE6108G	10A, 200 ~ 240V IEC320 C14 Plug	1U	1 x 10A 200 ~ 240V	8 x IEC 320 C13	Per Outlet	PDU Level	TUV
PE6208A	20A, 100 ~ 120V UL de-rated 16A NEMA 5-20 Plug	1U	1 x 20A 100 ~ 120V	8 x NEMA 5-20R	Per Outlet	PDU Level	UL, PSE
PE6208B	20A, 200 ~ 240V UL de-rated 16A NEMA 6-20 Plug	1U	1 x 20A 200 ~ 240V	7 x IEC 320 C13 + 1 x IEC 320 C19	Per Outlet	PDU Level	UL, PSE
PE6208G	16A, 200 ~ 240V IEC320 C20 Plug	1U	1 x 16A 200 ~ 240V	7 x IEC 320 C13 + 1 x IEC 320 C19	Per Outlet	PDU Level	TUV
PE6216B	20A, 200 ~ 240V NEMA L6-20P Plug	0U	1 x 20 A 200 ~ 240V	2 x IEC 320 C19 + 14 x IEC 320 C13	Per Outlet	Per Bank	FCC, TUV-CB*, TUV -UL*, TUV-PSE*
PE6216G	16A, 200 ~ 240V IEC60309 Plug	0U	1 x 16A 200 ~ 240V	2 x IEC 320 C19 + 14 x IEC 320 C13	Per Outlet	Per Bank	CE TUV-CB*
PE6324B	30A, 200 ~ 240V NEMA L6-30P Plug	0U	2 x 16A 200 ~ 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Bank	FCC, TUV-CB, TUV-UL, TUV-PSE
PE6324G	32A, 200 ~ 240V IEC60309 Plug	0U	2 x 16A 200 ~ 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Bank	CE, TUV-CB*

* Ready for compliance. The specification and pictures are subject to change without notice.

PE8108/PE8208
PE8216/PE8324

eco PDU

Power Distribution
- Space saving rack mount design
- IEC or NEMA outlet models
- Daisy chain up to 15 additional stations for up to 256 (PE8216) or 384 (PE8324) outlets*
- 2 x 7 segment front panel LED shows Station and Outlet IDs; 3 x 7 segment LED shows current, voltage or power dissipation at PDU level*
- 3 x 7 segment front panel LED shows Current / IP Address
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets – the user interface is still accessible even when an overload condition trips the devices' circuit breakers

Remote Access
- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Out of Band operation via modem access*
- Network Interfaces: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, ARP*, NTP, DNS, Telnet*, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V3
- IPv6 support*

Operation
- Local and Remote power outlet control (On, Off, Power Cycle) by individual outlets and outlet groups*
- Outlet group support at the PDU and Daisy-chain levels – the same action can be performed on a specified group of outlets at the same time*
- Supports redundant power management via daisy chaining and outlet groups*
- On/Off scheduling for individual outlets and outlet groups. Power management tasks can be scheduled on a daily, weekly, monthly, or user-specified times basis*
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-on sequencing - users can set the power on sequence and delay time for each outlet to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- Telnet and SSH access for text menu configuration and outlet level switching / monitoring*
- Local console access support*
- Java GUI AP program provided for non-browser connectivity*
- RTC support to keep the timer running during times of no power
- Supports up to 8 user and 1 administrator accounts
- Up to 64 user accounts - up to 32 concurrent logins*

Management
- Power status measurement at PDU and outlet levels
- Current, voltage, power dissipation, and energy consumption displayed in a browser based UI for monitoring at the outlet, group*, PDU, and daisy-chain* levels
- Alert threshold notification for selected events (On, Off, Recycle, Failure, etc.), via audio alarm and blinking LEDs (locally), SMTP, SNMP trap notification, and digital output*
- Environment monitoring – supports external temperature / temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power dissipation, energy consumption, temperature, and humidity threshold level setting
- Auto-Ping pings a device to determine its status, if the ping test fails after a set amount of time- it automatically takes an action assigned*
- Naming support for outlets and outlet groups
- User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Integration with ALTUSEN CC2000 Management software and KVM devices*
- Supports Management Information Base (MIB) files for SNMP
- API for 3rd party software centralized control integration*
- Upgradeable firmware
- Multi-language support

Security
- Two-level (PE8108/PE8208) / Three-level (PE8216/PE8324) password security
- IP/MAC Filter for enhanced security protection*
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS, TACACS+, LDAP, LDAPS and Active Directory*

*Features supported by PE8216/PE8324 only

Model	Nominal Input Power	# of Bank x Nominal Output Power	# of Outlet Socket x Type	Switching Capability	Metering Capability	Regulatory Approval
PE8108A	15A, 100 ~ 120V UL de-rated 12A NEMA 5-15 Plug	1 x 15A 100 ~ 120V	8 x NEMA5-20R	Per Outlet	Per Outlet	UL, PSE
PE8108B	15A, 200 ~ 240V UL de-rated 12A NEMA 6-15 Plug	1 x 15A 200 ~ 240V	8 x IEC 320 C13	Per Outlet	Per Outlet	UL, PSE
PE8108G	10A, 200 ~ 240V IEC320 C14 Plug	1 x 10A 200 ~ 240V	8 x IEC 320 C13	Per Outlet	Per Outlet	TUV
PE8208A	20A, 100 ~ 120V UL de-rated 16A NEMA 5-20 Plug	1 x 20A 100 ~ 120V	8 x NEMA5-20R	Per Outlet	Per Outlet	UL, PSE
PE8208B	20A, 200 ~ 240V UL de-rated 16A NEMA 6-20 Plug	1 x 20A 200 ~ 240V	7 x IEC 320 C13 + 1 x IEC 320 C19	Per Outlet	Per Outlet	UL, PSE
PE8208G	16A, 200 ~ 240V IEC320 C20 Plug	1 x 16A 200 ~ 240V	7 x IEC 320 C13 + 1 x IEC 320 C19	Per Outlet	Per Outlet	TUV
PE8216B	20A, 200 ~ 240V NEMA L6-20P Plug	1 x 20A 200 ~ 240V	2 x IEC 320 C19 + 14 x IEC 320 C13	Per Outlet	Per Outlet	FCC, TUV-CB*, TUV-UL*, TUV-PSE*
PE8216G	16A, 200 ~ 240V IEC60309 Plug	1 x 16A 200 ~ 240V	2 x IEC 320 C19 + 14 x IEC 320 C13	Per Outlet	Per Outlet	CE TUV-CB*
PE8324B	30A, 200 ~ 240V NEMA L6-30P Plug	2 x 16A 200 ~ 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Outlet	FCC, TUV-CB* TUV-UL*, TUV-PSE*
PE8324G	32A, 200 ~ 240V IEC60309 Plug	2 x 16A 200 ~ 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Outlet	CE, TUV-CB*

* Ready for compliance. The specification and pictures are subject to change without notice.

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Optional Accessories

Environment Sensors

ATEN provides various environment sensors to work with NRGence™ PDU. The sensors enable you to get status feedback on temperature, humidity or differential pressure.

Part No.	Sensor
EA1140	Temperature
EA1240	Temperature / Humidity
EA1340	Differential Pressure / Temperature

Cable Holders

For added safety, use ATEN Lok-U-Plug cable holders to secure the cables from your attached devices in place on the Energy PDU unit. Use only the ATEN Lok-U-Plug cable holders that have been specifically designed to work with the Energy PDU. Using any other kind of cable securing device could be highly dangerous.

Part No.	Cable Holder
2X-EA07	Lok-U-Plug (10 PCS per pack) Patent Pending!

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PE98224/PE98324 eco PDU

PE98224
- NEMA: 20A (derated 16A) ; IEC: 16A 3 Phase
- 24 Outlets
- 0U

PE98324
- NEMA: 30A (derated 24A) ; IEC: 32A 3 Phase
- 24 Outlets
- 0U

Power Distribution
- Space saving 0U rack mount design
- IEC or NEMA outlet models
- Daisy-chain up to 15 additional stations for up to 384 outlets
- 2 x 7 segment front panel LED shows Station and Outlet IDs
- 3 x 7 segment LED shows current, voltage or power dissipation at PDU level
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets – the user interface is still accessible even when an overload condition trips the devices' circuit breakers

Remote Access
- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Out of Band operation via modem access
- Network Protocols: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, ARP, NTP, DNS, Telnet, auto sense, Ping
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V3
- IPv6 support

Operation
- Local and Remote power outlet control (On, Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU and Daisy-chain levels – the same action can be performed on a specified group of outlets at the same time
- Supports redundant power management via daisy chaining and outlet groups
- On/Off scheduling for individual outlets and outlet groups. Power management tasks can be scheduled on a daily, weekly, monthly, or user-specified times basis
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- Power-on sequencing - users can set the power on sequence and delay time for each outlet to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- Telnet and SSH access for text menu configuration and outlet level switching / monitoring
- Local console access support
- Java GUI AP program provided for non-browser connectivity
- RTC support to keep the timer running during times of no power
- Up to 64 user accounts - up to 32 concurrent logins

Management
- Power status measurement at PDU and outlet levels
- LED indicators for current, voltage, power dissipation, temperature, and humidity at the PDU and outlet levels
- Current, voltage, power dissipation, and energy consumption displayed in a browser based UI for monitoring at the outlet, group, PDU, and daisy-chain levels
- Alert threshold notification for selected events (On, Off, Recycle, Failure, etc.), via audio alarm and blinking LEDs (locally), SMTP, SNMP trap notification, and digital output
- Environment monitoring – supports external temperature / temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power dissipation, energy consumption, temperature, and humidity threshold level setting
- Auto-Ping pings a device to determine its status, if the ping test fails after a set amount of time- it automatically takes an action assigned
- Current and voltage threshold setting
- Naming support for outlets and outlet groups
- User outlet access assignment on an outlet-by-outlet basis
- Event logging and syslog support
- Integration with ALTUSEN CC2000 Management software and KVM devices
- Supports Management Information Base (MIB) files for SNMP
- API for 3rd party software centralized control integration
- Upgradeable firmware – daisy chained stations receive the upgrade via the daisy chain bus
- Multilanguage support

Security
- Three-level password security
- IP/MAC Filter for enhanced security protection
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS, TACACS+, LDAP, LDAPS and Active Directory

Model	Nominal Input Power	# of Bank x Nominal Output Power	# of Outlet Socket x Type	Switching Capability	Metering Capability	Regulatory Approval
PE98224B	20A, 346 – 415V NEMA L22-20P 3LNG Plug	3 x 20A 200 – 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Outlet	FCC, TUV-CB*, TUV-UL*, TUV-PSE*
PE98224G	16A, 346 – 415V IEC309 3PNPE Plug	3 x 16A 200 – 240V	3 x IEC 320 C19 + 21 x IEC 320 C13	Per Outlet	Per Outlet	CE, TUV-CB*
PE98324B	30A, 346 – 415V NEMA L22-30P 3LNG Plug	6 x 16A 200 – 240V	6 x IEC 320 C19 + 18 x IEC 320 C13	Per Outlet	Per Outlet	FCC, TUV-CB* TUV-UL*, TUV-PSE*
PE98324G	32A, 346 – 415V IEC309 3PNPE Plug	6 x 16A 200 – 240V	6 x IEC 320 C19 + 18 x IEC 320 C13	Per Outlet	Per Outlet	CE TUV-CB*

* Ready for compliance The specification and pictures are subject to change without notice.

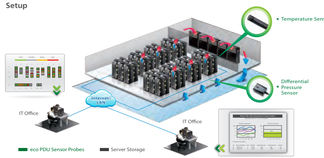
Energy Management Software eco Sensors

eco Sensors software has been developed to work with NRGence™ power distribution units (PDUs) to effectively increase the efficiency of data center power usage. With the use of dynamic Rack Cooling Index (RCI) and Return Temperature Index (RTI) by zone, eco Sensors software, in conjunction with sensor-enabled eco PDUs, gives you the means to assess, diagnose and estimate how much energy you can save. Following the suggestions generated by the sensor-enabled system allows you to optimize energy usage to save energy without harming your IT equipment's reliability.

- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
- PDU level current / voltage / power dissipation / power consumption
- Outlet ON / OFF / Recycle status
- Remote real-time power outlet management*
- Power outlet ON / OFF / Cycle switching by outlet
- User-defined outlet level delays for sequential power up
- Current / Voltage / Power Dissipation / Power Consumption threshold level setting
- User access assignment for every outlet
- Name assignment to individual outlets
- Remote real-time environment sensor monitoring
- Temperature / Temperature + Humidity reading / Temperature + Differential Pressure
- Temperature and Humidity threshold level setting
- Plotting/Monitoring of all PE devices
- Add data center server racks
- Add PE devices for each server rack
- Manage device/device outlet status for each plot
- Offers essential data center indices including RCIt Rack Cooling Index), RTI (Return Temperature Index), RHI (Rack Humidity Index), RPI (Rack Pressure Index), RAI (Rack Airflow Index)
- Power analysis report for optimizing data center energy management – including power usage, power load, power cost, CO2 cost, power capacity and trend
- Exceed threshold alert through SMTP and System log
- 10240 line event log
- System log provision
- Two-level password security

* Not all functions are supported by all NRGence™ PDU. Please see www.aten.com for more details.

Setup



Hardware Requirement

Operating System	Windows XP / Windows Server 2003 and later
CPU	2.0 GHz Dual Core
Display	Larger than 1024x768
Memory	2GB
Disk	300GB
Network	10/100/1000 Mbp Ethernet

System Parameter

Max PDU number	1000
Data Center Layout	45x30
Max Rack Number	500
Max Zone Number	20
Power Report Data	3 years
Real Time Dashboard Data	1 hours

Energy Intelligence PDU for Data Centers

2012 ▶ 2013